| Issue Classification | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |

| Application No. | Applicant(s) | |
|-----------------|------------------|--|
| 10/648,359 | KARPPINEN ET AL. | |
| Examiner | Art Unit | |
| | | |
| Y. J. Han | 2838 | |

| | | | | | IS | SUE C | LASSIF | ICATIO | N | | The second secon | And the second s | | | | | |
|---------------------------------------|-----|---|-----|----------------|--------|--------------------------------------|-----------------------|--------------|-------------------------|---|--|--|--|--|--|--|--|
| | | | ORI | GINAL | | CROSS REFERENCE(S) | | | | | | | | | | | |
| CLASS SUBCLASS CLASS | | | | | | SS SUBCLASS (ONE SUBCLASS PER BLOCK) | | | | | | | | | | | |
| | 323 | 3 | | 207 | 363 | 41 | 71 | 163 | | | | | | | | | |
| INTERNATIONAL CLASSIFICATION | | | | CLASSIFICATION | | | | | | | | - | | | | | |
| н | 0 | 2 | J | 3/18 | | | | | | | | | | | | | |
| | | | | 1 | | | · | | | | | | | | | | |
| | | | | 1 | | | | | | | | | | | | | |
| | | | | 1 | | | | | | | | | | | | | |
| | | | | 1 | | | | | | | | | | | | | |
| (Assistant Examiner) (Date) | | | | | e) | | SSICA HAI RY EXAMI | | Total Claims Allowed: 2 | | | | | | | | |
| Legal Instruments Examiner) (Date) | | | | 12/20 | I brit | 9A mary Examiner | (D) | O Print C | O.G. Print Fig. | | | | | | | | |
| (Legai instruments Examiner) (Date) / | | | | | | ااسلا | mary Exprimier, | , (D. | | 3 | | | | | | | |

| \boxtimes c | Claims renumbered in the same order as presented by applicant | | | | | | | ☐ CPA | | ☐ T.D. | | | ☐ R.1.47 | | | | |
|---------------|---|----------|-------|----------|---|-------|----------|-------|----------|--------|-------|----------|----------|----------|---|-------|----------|
| Final | Original | | Final | Original | | Final | Original | Final | Original | | Final | Original | Final | Original | | Final | Original |
| | 1 | | | 31 | j | | 61 | | 91 | | | 121 | | 151 | | | 181 |
| | 2 | | | 32 | | | 62 | | 92 | | | 122 | | 152 | | | 182 |
| | 3 | | | 33 | | | 63 | | 93 | | | 123 | | 153 | | | 183 |
| | 4 | | | 34 | | | 64 | | 94 | | | 124 | | 154 | | | 184 |
| | 5 | | | 35 | | | 65 | | 95 | | | 125 | | 155 | | | 185 |
| | 6 | | | 36 | | | 66 | | 96 | | | 126 | | 156 | | | 186 |
| | 7 | } | | 37 | | | 67 | | 97 | | | 127 | | 157 | • | | 187 |
| | 8 | | | 38 | | | 68 | | 98 | | | 128 | | 158 | i | | 188 |
| | 9 | | | 39 | | | 69 | | 99 | | | 129 | | 159 | | | 189 |
| | 10 | | | 40 | | | 70 | | 100 | | | 130 | | 160 | | | 190 |
| | 11 | | | 41 | | | 71 | | 101 | | | 131 | | 161 | i | | 191 |
| | 12 | | | 42 | | | 72 | | 102 | | | 132 | | 162 | ! | | 192 |
| | 13 | | | 43 | | | 73 | | 103 | | | 133 | | 163 | | | 193 |
| | 14 |] | | 44 | | | 74 | | 104 | | | 134 | | 164 | | | 194 |
| | 15 |] | | 45 | | | 75 | | 105 | | | 135 | | 165 | | | 195 |
| | 16 | | | 46 | | | 76 | | 106 | | | 136 | | 166 | | | 196 |
| | 17 | | | 47 | | | 77 | | 107 | | | 137 | | 167 | | | 197 |
| | 18 | | | 48 | | | 78 | | 108 | | | 138 | | 168 | | | 198 |
| | 19 | | | 49 | | | 79 | | 109 | | | 139 | | 169 | | | 199 |
| | 20 | | | 50 | | | 80 | | 110 | | | 140 | | 170 | | | 200 |
| | 21 | | | 51 | | | 81 | | 111 | | | 141 | | 171 | | | 201 |
| | 22 | | | 52 | | | 82 | | 112 | | | 142 | | 172 | | | 202 |
| | 23 | | | 53` | | | 83 | | 113 | | | 143 | | 173 | | | 203 |
| | 24 | | | 54 | | | 84 | | 114 | | | 144 | | 174 | | | 204 |
| | 25 | | | 55 | | | 85 | | 115 | | | 145 | | 175 | | | 205 |
| | 26 | | | 56 | | | 86 | | 116 | | | 146 | | 176 | | | 206 |
| | 27 | | | 57 | | | 87 | | 117 | | | 147 | | 177 | | | 207 |
| | 28 | | | 58 | | | 88 | | 118 | | | 148 | | 178 | | | 208 |
| | 29 | | | 59 | | | 89 | | 119 | | | 149 | | 179 | | | 209 |
| | 30 | <u> </u> | | 60 | | | 90 | | 120 | l | | 150 | | 180 | | | 210 |